s.s. "Pagenturm"
Bhn 1501.

s.s. "Adamsturm"
Bhn 1522.

W815 - 0016

25.2.09

S.S. 233-234.

Profile.

Sheer.

Sternpost	3' 5"
1/8 L from Sternpost	1' 8"
1/2 L	0' 0"
1/8 L from Stem	4' 10"
Stem	9' 9½"

Length betw. Perps.	399' 8"
Breadth moulded	52' 3½"
Depth " " to Spardeck	31' 0"
" " " Maindeck	23' 0"
Maximum Load Draught	

½ Girth	46.2
½ Breadth	26.146
Depth	24.089
Framing Number	96.435
×	399.667
Plating " "	38542.
L:D to Spardeck	12.5.

Class: Lloyds Register ✠ 100 A1 Spardeck-Deepframing

Scale 1/8" = 1'.

WOOD PLANKING 3"
BEAMS ⊏ 8½" × 3½ × 3½ × 10/20" OR ⊏ 9½" × 3½" × 11/20"
Pillars.
DECKANGLES 3½" × 3½ × 9/20"
INTERCOSTALPLATE 9/20"
POOP BULKHEAD 8/20"
COAMING L 10" × 3½ × 10/20"
STIFFENERS L 5½" × 3" × 9/20"
MAST SUPPORTED TO SURVEYORS SATISFACTION
TEAK 5" × 3" IN WELLS
Pillars.
DECKANGLES 3½ × 3½ × 10/20"
INTERCOSTALPLATE 10/20"
+ rider plate.
SPARDECK BEAMS ⊏ 8" × 3" × 9/20"
STEELDECK 8-7/20"
WASHPLATE
W.T. BULKHEAD
MAINDECK BEAMS ⊏ 8½" × 3½ × 10/20"
RIDERPLATE 10/20"
BEAMS SUPPORTED TO SURVEYORS SATISFACTION.
W.T. BULKHEAD STRENGTHENED TO SURVEYOR'S SATISFACTION
SPARDECK - STEELDECK 8-7/20" IN WELLS 9/20"
TRUNK-HATCH.
TWEENDECK-TANK
PLAN TO BE SUBMITTED
MAINDECK BEAMS IN WAY OF TWEENDECK TANK ⊏ 8½" × 3½ × 12/20"
ENGINEER'S
ENGINE-CASING.
BOILER-CASING.
GALLEY.
STEAM-STEERING-GEAR
BRIDGEDECK BEAMS ⊏ 9" × 3½" × 12/20" OR ⊏ 9½" × 3½" × 13/20"
SEE 15 PARA. 13.
WEB
web
W.T.
HOSPITAL
CHARTHOUSE
STEEL-BRIDGEDECK 8/20" SHEATHED WITH 3" WOOD.
OFFICER'S ACCOMODATION.
BRIDGE FRONT-BULKHEAD 8/20"
COAMING L 10" × 3½" × 10/20"
STIFFENER'S ⊏ 7½" × 3" × 12/20"
BRACKET'S AT TOP & BOTTOM.
RIDER-PLATE 10/20"
WOOD DECK 3"
STEELDECK 6/20"
BEAM'S ⊏ 9" × 3½ × 12/20" OR ⊏ 9½" × 3½ × 13/20"
CREW'S ACCOMODATION
PILLAR'S 2¾" ⌀ 2 ROWS.
STORE
PILLARS 3⅛" ⌀
PILLAR'S 3⅜" ⌀
BEAMS ⊏ 8" × 3" × 9/20"
FORE PEAKTANK.
18" WEB
STRENGTHENED TO SURVEYORS SATISFACTION
WATER-BALLAST.
FRESHWATER-TANK
AIR-TANK

RIVETS THRO' FRAMES & SHELLPLATING SPACED 6 DIAR. APART IN WAY OF AFTER PEAKTANK.

3/4 L.

3/5 L.

1/2 L.

ARRANGEMENT OF STEELDECK'S, WEBFRAMES, STRONGBEAM & BULKHEADS AS PER SPECIAL PLAN.

REVERSED ANGLES 4" × 4" × 10/20" TO EVERY 3d TO 4th BULBANGLEFRAME FROM MARGIN PLATE TO SPARDECK

1/2 L.

3/5 L.

3/4 L.

BOTTOM FORWARD OF 3/5TH LENGTH STRENGTHENED AS PER RULE.

RIVETS THROUGH FRAMES & SHELLPLATING SPACED 6 DIAR. APART IN WAY OF PEAKTANK.

CB.
25.2.09.

No. 34803.
JOH. C. TECKLENBORG A.-G.
SCHIFFSWERFT und MASCHINENFABRIK
BREMERHAVEN-GEESTEMÜNDE.
13/II 09.

W815-0016

S.S. "Pagenturm"
Bhn 1501.
S.S. Adamsturm
Bhn 1522

W815 - 0015

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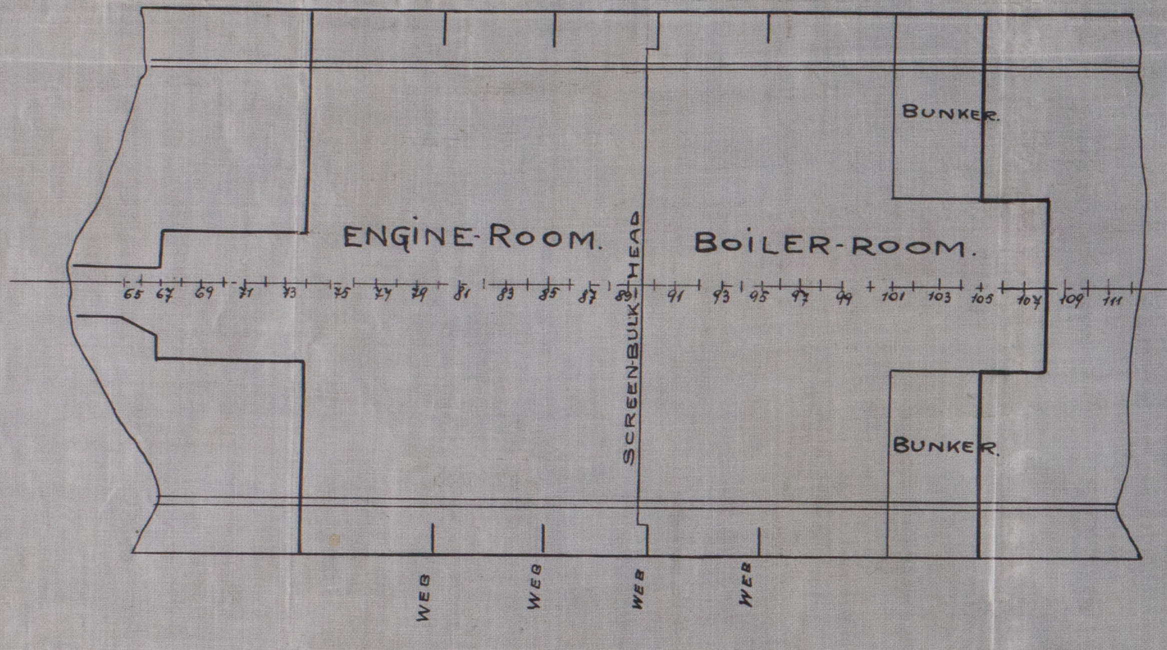
Foundation

25.2.09.

S.S. No 233/34.

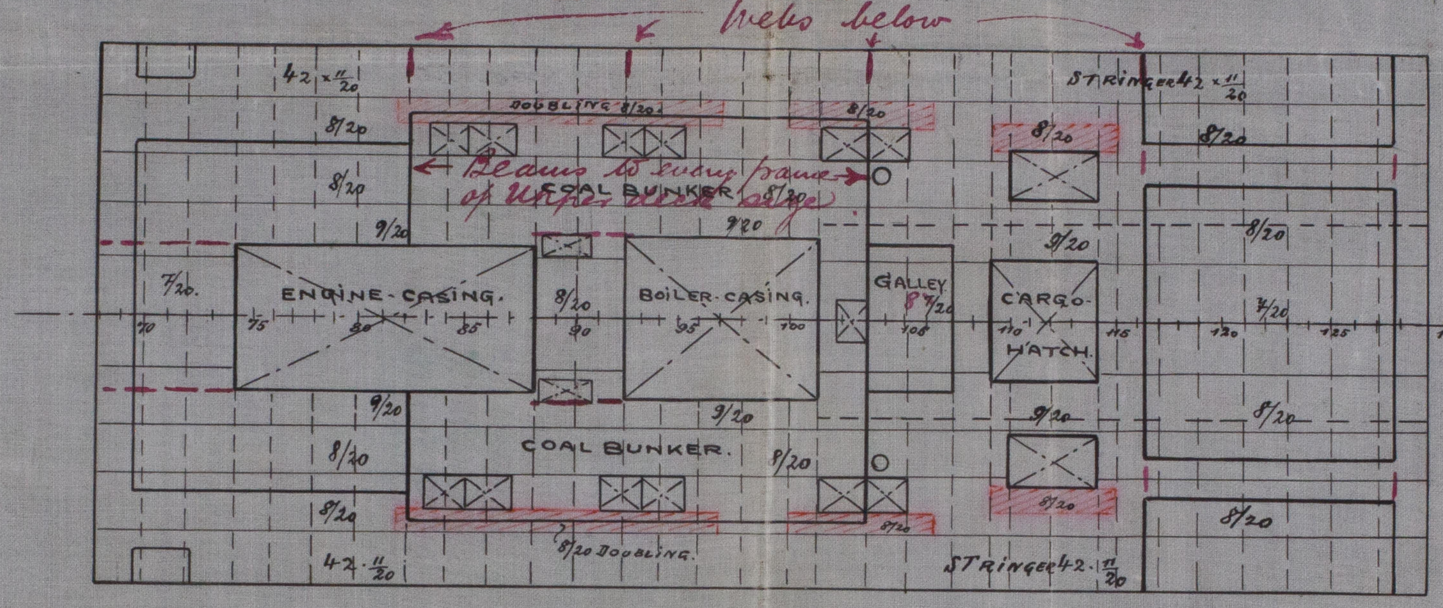
ARRANGEMENT OF STEELDECKS, WEBFAMES & BULKHEADS.

SCALE 1:200.



ENGINE-ROOM.
BOILER-ROOM.
SCREENBULKHEAD
BUNKER.
BUNKER.
WEB
WEB
WEB
WEB

BRIDGEDECK.

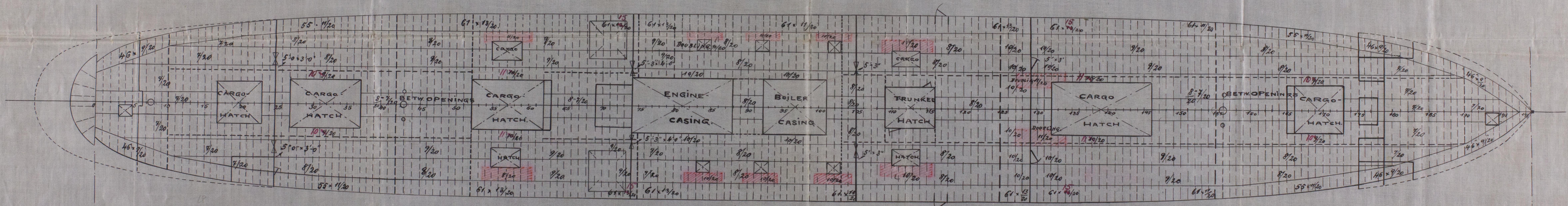


webs below
Beams to scarp frame of Webs
DOUBLING
COAL BUNKER.
ENGINE-CASING.
BOILER-CASING.
GALLEY
CARGO HATCH
COAL BUNKER.
STRINGER 42 11/20
8/20 DOUBLING

ALL CORNER's OF HATCHES & CASINGS TO BE STRENGTHENED WITH DOUBLING-PLATES AS PER RULE.

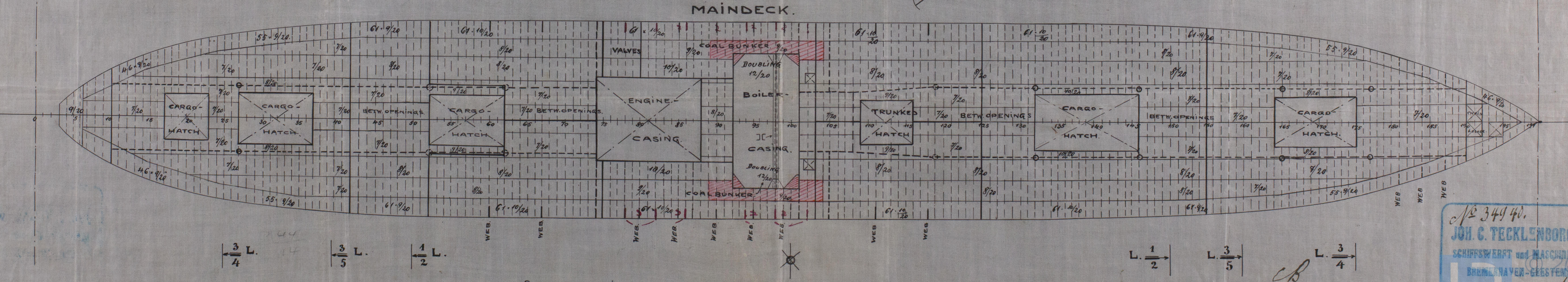
Hatch webs & fore rafters as per Rule.

SPARDECK.



CARGO HATCH
CARGO HATCH
BETW. OPENINGS
CARGO HATCH
ENGINE CASING
BOILER CASING
TRUNKED HATCH
CARGO HATCH
BETW. OPENINGS
CARGO HATCH
DOUBLING

MAINDECK.



VALVES
COAL BUNKER
DOUBLING 12/20
CARGO HATCH
CARGO HATCH
BETW. OPENINGS
CARGO HATCH
BETW. OPENINGS
ENGINE CASING
BOILER CASING
TRUNKED HATCH
BETW. OPENINGS
CARGO HATCH
BETW. OPENINGS
CARGO HATCH
COAL BUNKER
WEB
3/4 L.
3/5 L.
1/2 L.
L. 1/2
L. 3/5
L. 3/4

STRAKE OF MAINDECK PLATTING INCREASED 1/20 IN THICKNESS IN LENGTH OF HATCHES & 2/20 IN LENGTH OF CASINGS.

C.B.
25.2.09

No 34940.
JOH. C. TECKLENBORG A.-G.
SCHIFFSWERFT und MASCHINENFABRIK
BREMERHAVEN-GEESTEMÜNDE.
18/II.09.

18/II.09
F.L.

W815-0015

S.S. "Pagenturm"
Bhn 1501.

S.S. "Adamsturm"
Bhn 1522

RETAIN

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W815 - 0013

25.2.09
19.3.09
22.6.09

S. S. № 233/34.

MIDSHIP-SECTION.

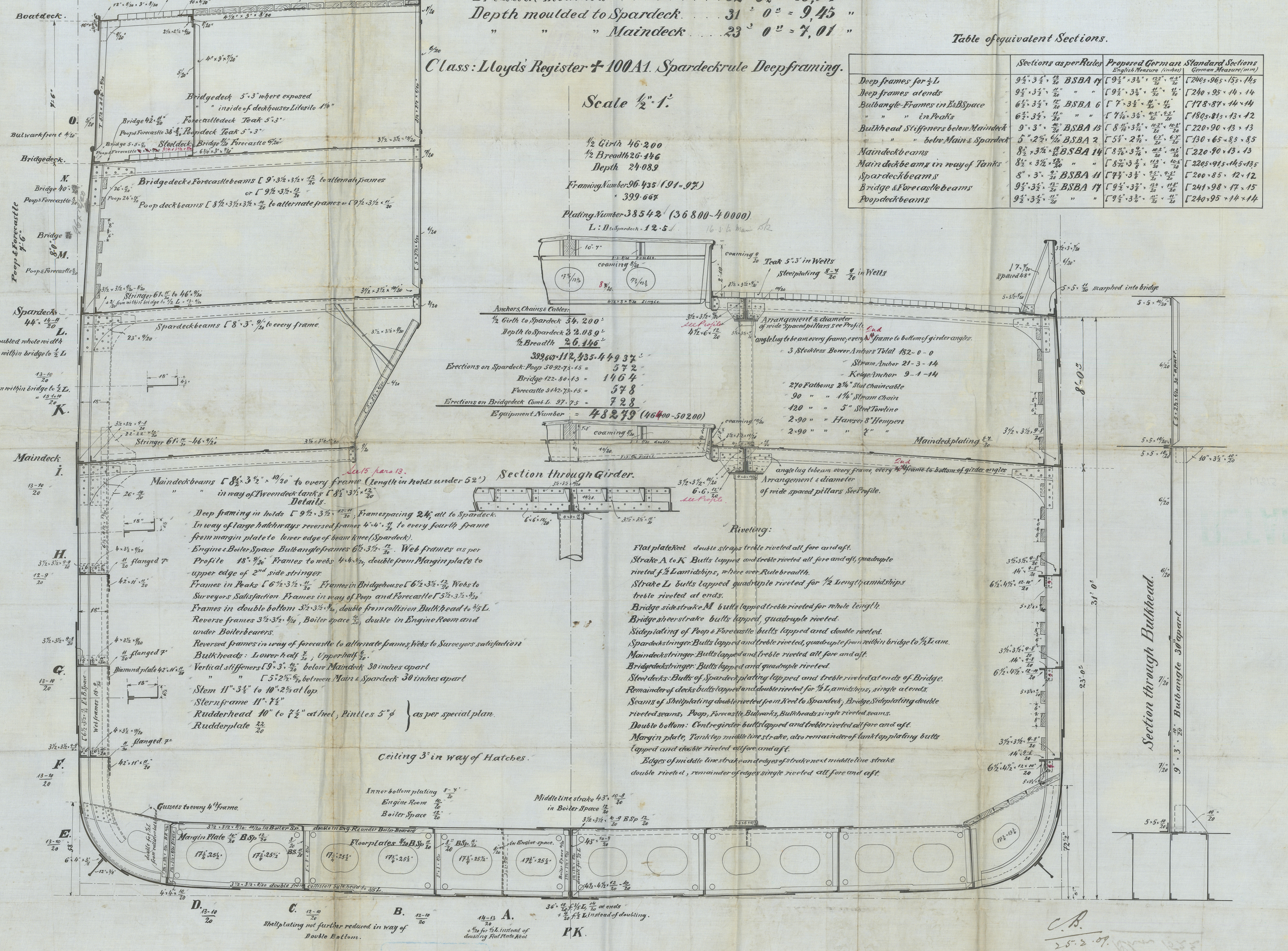
Length betw. Perp.s . . . . 399' 8" = 121,815 Mtr.
Breadth moulded . . . . 52' 3½" = 15,94 "
Depth moulded to Spardeck . . . 31' 0" = 9,45 "
" " " Maindeck . . . 23' 0" = 7,01 "

Class: Lloyd's Register ✠ 100 A1. Spardeckrule Deepframing.

Scale ½" = 1'.

Table of equivalent Sections.

	Sections as per Rules	Proposed German Standard Sections	
		English Measure (inches)	German Measure (mm)
Deep frames for 3/5 L	9½" × 3½" × 12/20 BSBA 17	[9½" × 3¾" × 12.2"/20 × 11.4"/20	[240,5 × 96,5 × 15,5 × 14,5
Deep frames at ends	9½" × 3½" × 11"/20 " "	[9½" × 3¾" × 11"/20 × 11"/20	[240 × 95 × 14 × 14
Bulbangle-Frames in E&B Space	6½" × 3½" × 12"/20 BSBA 6	[7" × 3½" × 11"/20 × 11"/20	[178 × 87 × 14 × 14
" " " in Peaks	6½" × 3½" × 11"/20 " "	[7 1/16 × 3¼" × 10.2"/20 × 9.5"/20	[180,5 × 81,5 × 13 × 12
Bulkhead Stiffeners below Maindeck	9" × 3" × 10"/20 BSBA 15	[8 11/16" × 3 9/16" × 10.2"/20 × 10.2"/20	[220 × 90 × 13 × 13
" " betw Main & Spardeck	5" × 2½" × 6/20" BSBA 2	[5⅛" × 2 9/16" × 6.7"/20 × 6.7"/20	[130 × 65 × 8,5 × 8,5
Maindeckbeams	8½" × 3½" × 10"/20 BSBA 14	[8 11/16" × 3 9/16" × 10.2"/20 × 10.2"/20	[220 × 90 × 13 × 13
Maindeckbeams in way of Tanks	8½" × 3½" × 12"/20 " "	[8 7/10" × 3⅝" × 11.4"/20 × 10.6"/20	[220,5 × 91,5 × 14,5 × 13,5
Spardeckbeams	8" × 3" × 9"/20 BSBA 11	[7⅞" × 3⅜" × 9.5"/20 × 9.5"/20	[200 × 85 × 12 × 12
Bridge & Forecastlebeams	9½" × 3½" × 13"/20 BSBA 17	[9½" × 3⅞" × 13.4/20 × 11.8"/20	[241 × 98 × 17 × 15
Poopdeckbeams	9½" × 3½" × 11"/20 " "	[9½" × 3¾" × 11"/20 × 11"/20	[240 × 95 × 14 × 14


Wood deck 2½"
12" × 8/20 × 3" × 8/20
10 × 6/20"
14" × 6/20
10" × 3½" × 8/20
4½" × 3" × 8/20
Boatdeck.
7'6"
O.
Bridgedeck 5" × 3" where exposed
" " inside of deckhouses Litosilo 1¼"
Bridge 42" × 11/20"
Forecastledeck Teak 5" × 3"
Poop & Forecastle 38" × 8/20 Poopdeck Teak 5" × 3"
Bulwark front 4/20"
Bridge 5 × 5 × 11/20
Steeldeck. Bridge 8/20" Forecastle 6/20"
Poop & Forecastle ~~4 × 4 × 9/20~~ 3½ × 3½ × 8/20
6¾" × 3" × 4/20"
Bridgedeck.
N.
Bridge 40" × 13/20
Poop & Forecastle 8/20
Bridgedeck & Forecastlebeams [9" × 3½ × 3½ × 12/20 to alternate frames
or [9½ × 3½ × 13/20
Poop deckbeams [8½ × 3½ × 3½ × 10/20 to alternate frames or [9½ × 3½ × 11/20
Poop & Forecastle 7'6"
Bridge 11/20
8'0"
M.
Poop & Forecastle 8/20
Stringer 61 × 11/20 to 46" × 9/20
+ 2/20 from within bridge to ½ L = 13-9/20
Spardeck
44" × 14-11/20
L.
Spardeckbeams [8" × 3" × 9/20" to every frame
Doubled whole width from within bridge to ½ L
13-10/20
+ 2/20 from within bridge to ½ L = 13-10/20
K.
Stringer 61" × 10/20 - 46 × 9/20"
Maindeck
I.
13-10/20
H.
12-9/20
G.
13-10/20
F.
13-10/20
E.
58"
D.
13-10/20
C.
12-10/20
B.
12-10/20
14-13/20
A.
+ 4/20 for ½ L instead of doubling Flat Plate Keel
P K.
36" × 18/20 f. 3/5 L, 14/20 at ends
+ 4/20 f. ½ L instead of doubling.
Gussets to every 4th frame.
Margin Plate 10"/20 B.Sp 12/20
Floorplates 8/20 B.Sp 11/20
in Engine-space.
Inner bottom plating 8-7/20
Engine Room 10/20
Boiler Space 12/20
Middle line strake 43" × 10-8/20
in Boiler Space 12/20
17¾" × 25½"
Coaming 9/20
Teak 5" × 3" in Wells
Steelplating 8-7/20 9/20 in Wells
coaming 8/20
coaming 10/20
3 × 3 × 8/20 double
4½ × 3 × 9/20 single
See Profile
Section through Girder.
Maindeckplating 8-7/20
8'0"
31'0"
23'0"
72½"
Section through Bulkhead
9" × 3" × 10/20 Bulbangle 30" apart
5 × 5 × 11/20 scarphed into bridge
Shellplating not further reduced in way of Double Bottom.

½ Girth 46·200
½ Breadth 26·146
Depth 24·089

Framing Number 96·435 (91 = 97)
× 399·667

Plating Number 38542 (36800–40000)
L : D to Spardeck = 12·5. 16·5 to Main Dk

Anchors, Chains & Cables:

½ Girth to Spardeck 54.200'
Depth to Spardeck 32.089'
½ Breadth 26.146'
399,667 × 112,435 = 44937'
Erections on Spardeck: Poop 50·92 × 7·5 × 1·5 = 572
Bridge 122 × 8·0 × 1·5 = 1464
Forecastle 51·42 × 7·5 × 1·5 = 578
Erections on Bridgedeck Comb. L. 97 × 7·5 = 728
Equipment Number = 48279 (46400–50200)

Arrangement & diameter of wide spaced pillars see Profile.
angle lug to beam every frame; every ~~4th~~ 2nd frame to bottom of girder angles.

3 Stockless Bower Anchors Total 182-0-0
Stream Anchor 21-3-14
Kedge Anchor 9-1-14
270 Fathoms 2¼" Stud Chaincable
90 " " 1¼" Stream Chain
120 " " 5" Steel Towline
2 × 90 " " Hawser 8" Hempen
2 × 90 " " " 7" "

angle lug to beam every frame, every ~~4th~~ 2nd ~~frame to bottom of girder angles~~
Arrangement & diameter of wide spaced pillars See Profile.

See 15 para 13.

Maindeckbeams [8½" × 3½" × 10/20" to every frame (length in holds under 52')
" " in way of Tweendeck tanks [8½" × 3½" × 12"/20

Details.

Deep framing in holds [9½ × 3½ × 12-11/20; Framespacing 24" all to Spardeck.
In way of large hatchways reversed frames 4" × 4" × 11/20 to every fourth frame from margin plate to lower edge of beam knee (Spardeck).
Engine & Boiler Space Bulbangleframes 6½ × 3½ × 12/20. Web frames as per Profile 18" × 9/20" Frames to webs 4 × 4 × 9/20, double from Margin plate to upper edge of 2nd side stringer.
Frames in Peaks [6½ × 3½ × 11/20 Frames in Bridgehouse [6½ × 3½ × 12/20 Webs to Surveyors Satisfaction. Frames in way of Poop and Forecastle [5½ × 3½ × 8/20
Frames in double bottom 3½ × 3½ × 8/20; double from collision Bulkhead to 3/5 L.
Reverse frames 3½ × 3½ × 8/20, Boiler space 10/20; double in Engine Room and under Boilerbearers.
Reversed frames in way of forecastle to alternate frames; Webs to Surveyors satisfaction
Bulkheads: Lower half 7/20; Upper half 6/20.
Vertical stiffeners [9" × 3" × 10/20" below Maindeck 30 inches apart
" " [5" × 2½" × 6/20 between Main & Spardeck 30 inches apart
Stem 11" × 3⅛" to 10" × 2⅝ at top.
Sternframe 11" × 7½"
Rudderhead 10" to 7½" at heel; Pintles 5" ϕ } as per special plan.
Rudderplate 22/20

Ceiling 3" in way of Hatches.

Riveting:

Flat plate Keel double straps treble riveted all fore and aft.
Strake A to K Butts lapped and treble riveted all fore and aft, quadruple riveted f. ½ L amidships, where over Rule breadth.
Strake L butts lapped quadruple riveted for ½ Length amidships treble riveted at ends.
Bridge side strake M butts lapped treble riveted for whole length.
Bridge sheerstrake butts lapped, quadruple riveted.
Sideplating of Poop & Forecastle butts lapped and double riveted.
Spardeckstringer: Butts lapped and treble riveted, quadruple from within bridge to ½ L am.
Maindeckstringer: Butts lapped and treble riveted all fore and aft.
Bridgedeckstringer: Butts lapped and quadruple riveted.
Steeldecks: Butts of Spardeckplating lapped and treble riveted at ends of Bridge.
Remainder of decks butts lapped and double riveted for ½ L amidships, single at ends.
Seams of Shellplating double riveted from Keel to Spardeck; Bridge Sideplating double riveted seams, Poop, Forecastle, Bulwarks, Bulkheads single riveted seams.
Double bottom: Centregirder butts lapped and treble riveted all fore and aft.
Margin plate, Tanktop middle line strake, also remainder of tanktop plating butts lapped and double riveted all fore and aft.
Edges of middle line strake and edges of strake next middle line strake double riveted, remainder of edges single riveted all fore and aft.

C.B.
25.2.09.

№ 34804.
JOH. C. TECKLENBORG A.-G.
SCHIFFSWERFT und MASCHINENFABRIK
BREMERHAVEN-GEESTEMÜNDE.
13/II 09.

W815-0013

S.S. Pagenturm

Rhn 1501.

S.S. Adamsturm

Rhn 1522

W815-0014

Steel-Boiler for ship 233-234.

Joh. C. Tecklenborg A.G.

to be classed 100 A1 steel.

Bremerhaven - Geestemünde.

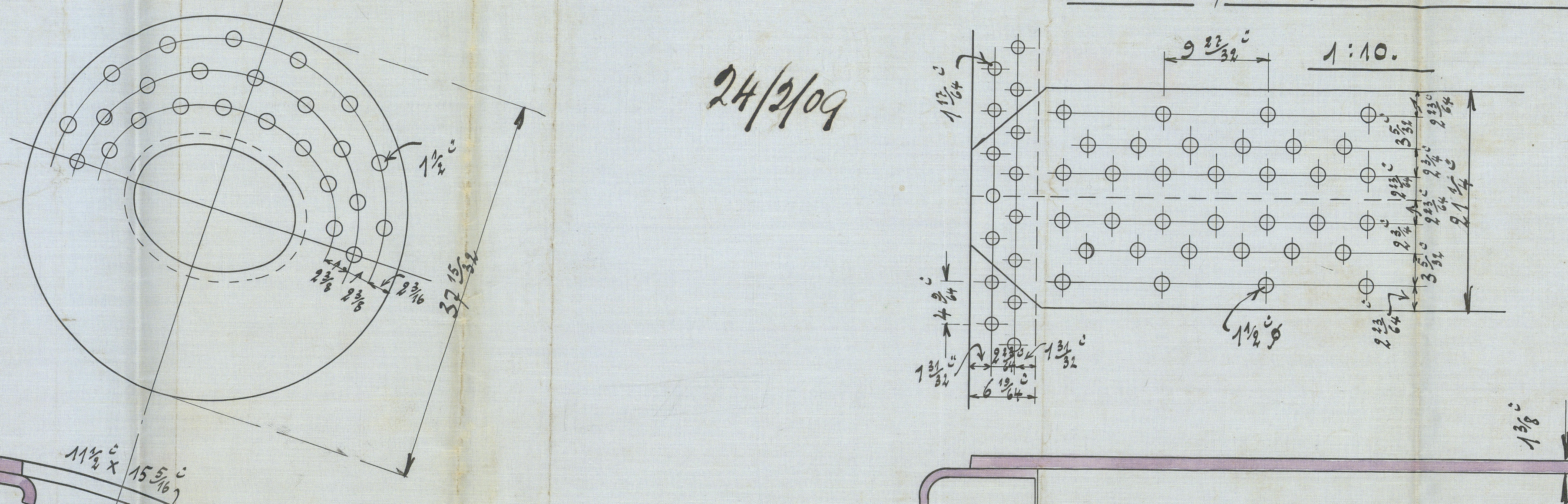
No: 307-308-309. 311-312-313.

Heating surface _______ 2108 square feet.
Grate _____________ 50 " "
Working pressure _______ 213 lbs per sq. inch.
Hydraul " " _______ 285 " " " "

Material: Siemens-Martin-Steel.

Shell plating and girders tensile strength of 27,9 - 31,7 tons per sq. inch.
Elongation 22,5 per cent.
All the other material 22,9 - 26,7 tons per sq. inch tensile strength.
Elongation 25 per cent.
All stay bolts with nuts and washers; material Feinkorneisen
tensile strength 25,4 ÷ 28,6 tons per sq. inch.

24/2/09


1:10.
9 22/32"
1 17/64"
1 1/2"
1 3/4 x 15 5/8"

Water level
Inclination 8°
bottom of thread 3 3/16" ϕ
bottom of thread 2 13/16" ϕ
bottom of thread 1 9/16" ϕ
35 1/16"
7 7/8"
1 3/32"
201 plain tubes 2 1/2" outside ϕ, 11/64" thick.
135 stay " 2 1/2" " " , 9/32" "
Sx 336.
13' 8 3/8"
7' 10 1/2"
Fall of tubes 2"
System Morison
tensile strength 22,9 - 26,7 tons
bottom of thread 3 3/16"
bottom of thread 2 13/16"
41 3/4"
37 13/32" ϕ
41 11/32" ϕ
8"
13"
11' 2 3/4"
11' 9 3/4"
34 5/8"
Stay bolts for the outside plate
of the side fire box.
7 7/8"
bottom of thread 1 29/32"
In the outer row
bottom of thread
1 21/32"
bottom of thread 1 9/16"
7 1/16"
14 3/16"
11 1/2 x 15 5/8"
55 1/2"
47 3/4"

№ 34929.
JOH. C. TECKLENBORG A.-G.
SCHIFFSWERFT und MASCHINENFABRIK
BREMERHAVEN-GEESTEMÜNDE.
17/II 09.

24.2.09

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W815-0014
Lloyd's Register
Foundation

s.s. "Pagenturm"
Bhn 1501.

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s.s. "Adamsturm"
Bhn 1522.

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Steel-Donkey-Boiler for ships 233-234.

Joh. C. Tecklenborg A.G.

to be classed 100 A1 steel.

Bremerhaven-Geestemünde.

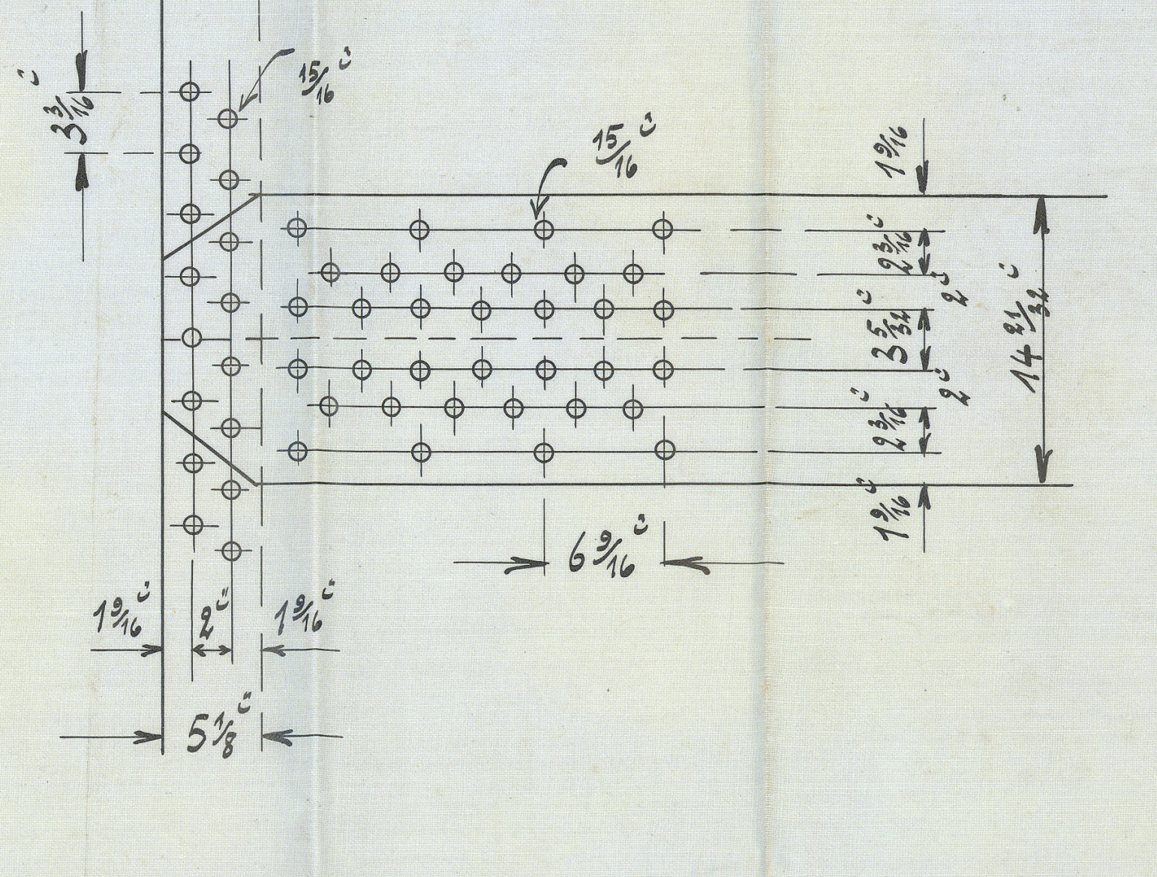
No 310 and 314.

1:10.

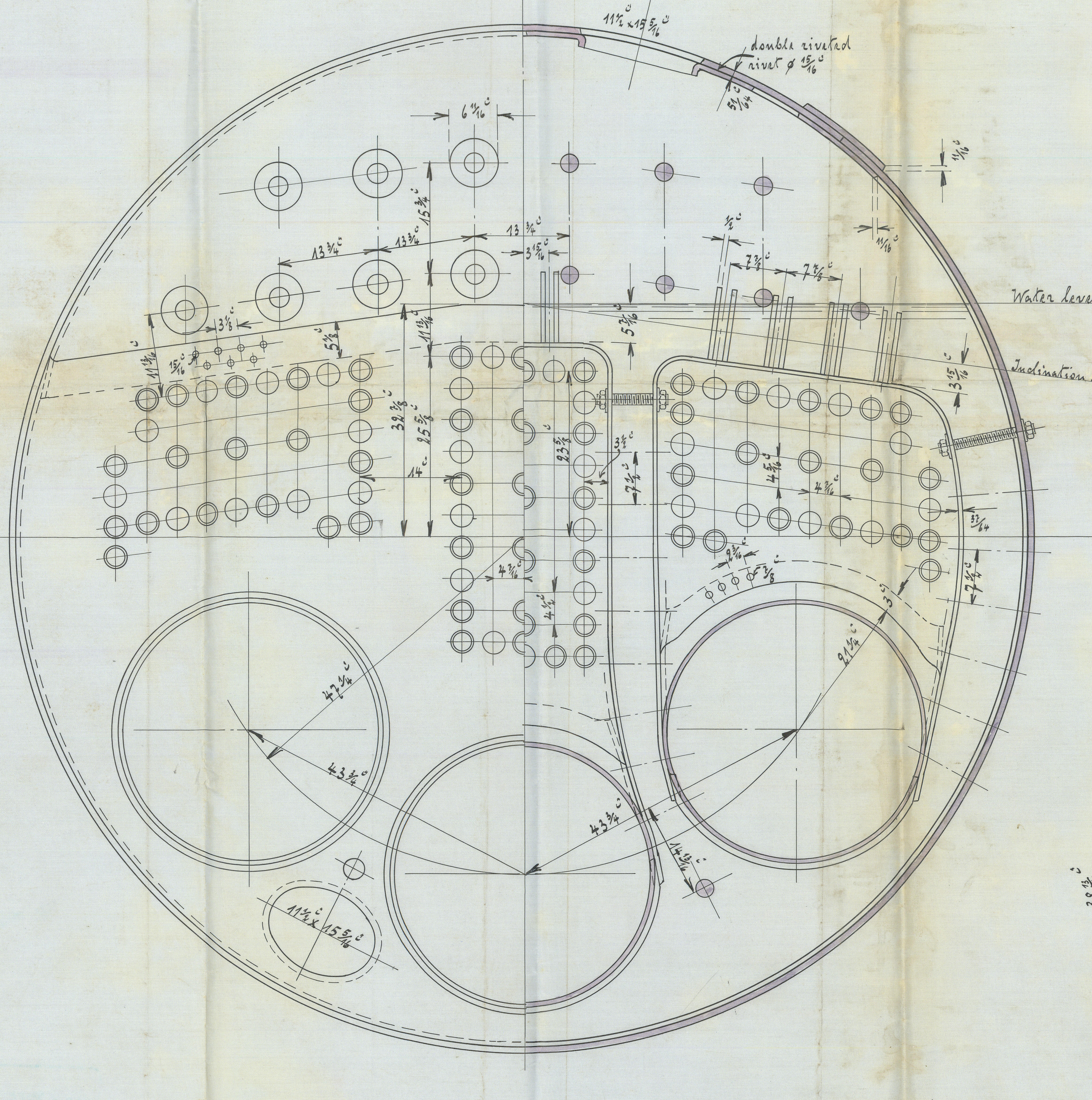
24/2/09

Heating surface ________ 1054 square feet
Grate ________________ 45 " "
Working pressure ________ 121 lbs. per sq. inch
Hydraul. " "________ 192 " " " "

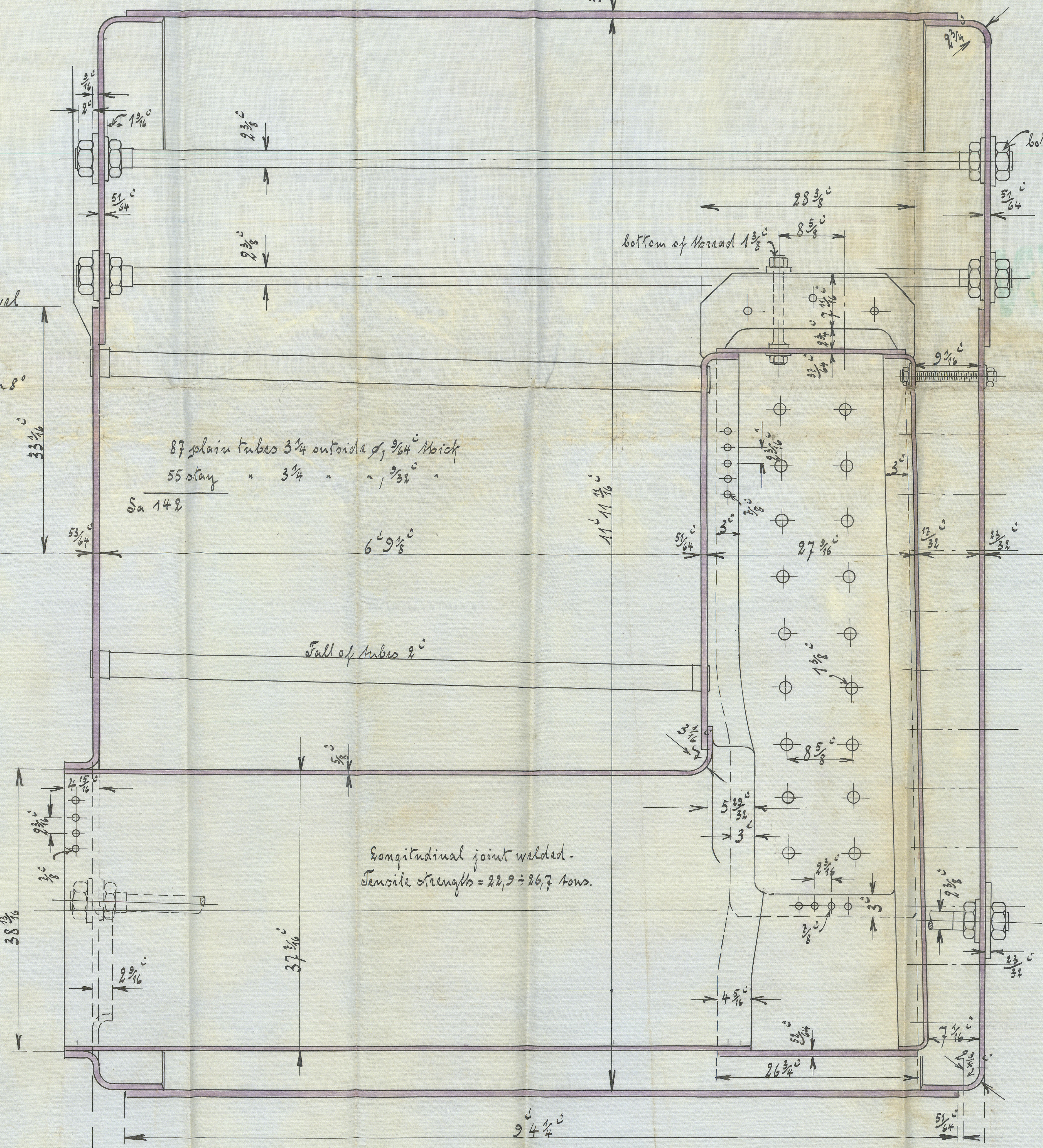
Material: Siemens-Martin-Steel.
Shell plating and girders: Tensile strength 26,7 ÷ 30,5 tons per sq. inch
Elongation 22,5 per cent.
All the other material: Tensile strength 24,1 ÷ 27,9 tons per sq. inch
Elongation 25 per cent.
All stay bolts with nuts and washers; material Feinkorneisen
tensile strength 25,4 ÷ 28,6 tons per sq. inch.



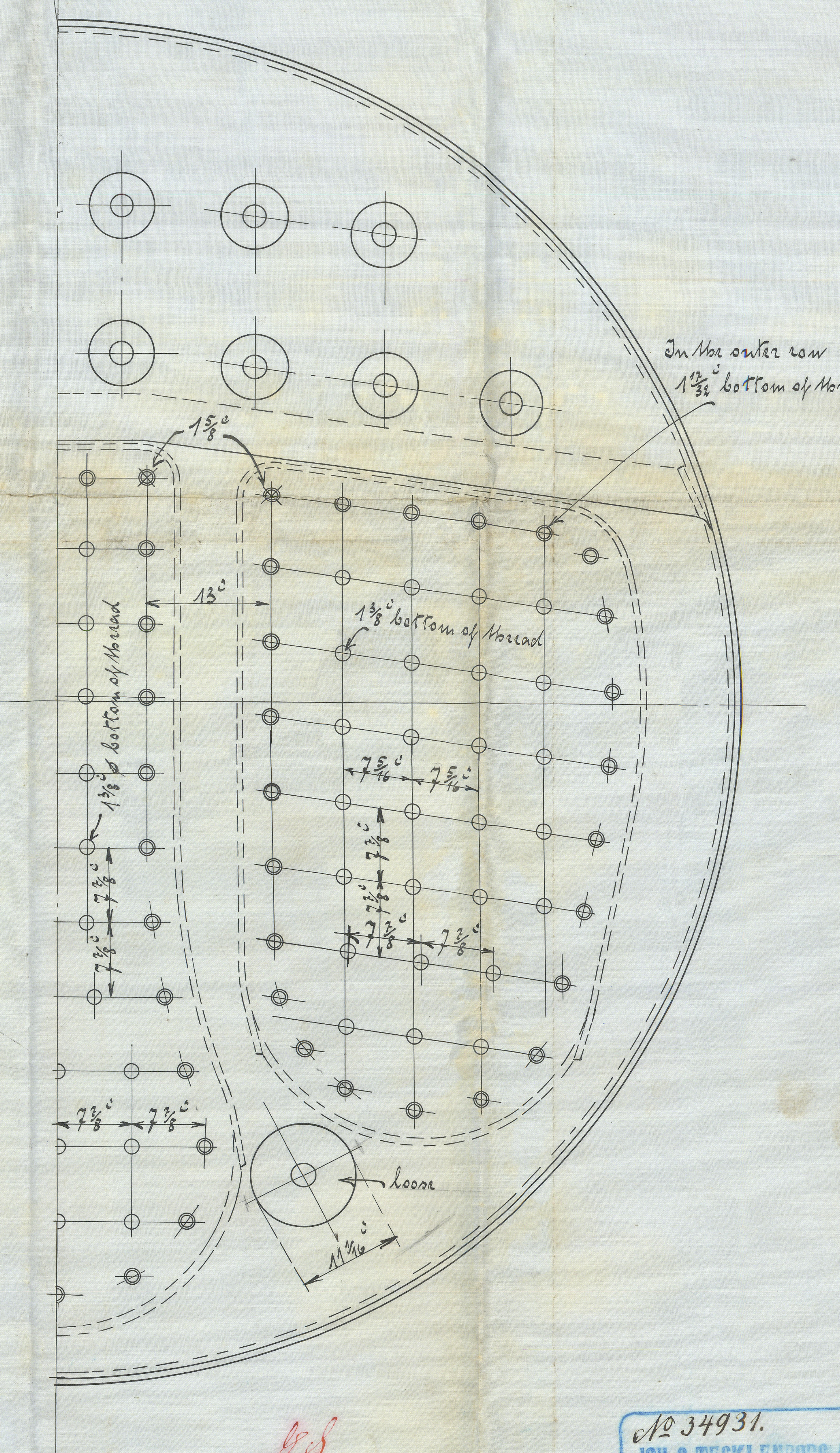
3 3/16"
15/16"
15/16"
1 9/16
2 3/16
3 5/16
1 3/16
14 3/16"
6 9/16"
1 3/16"
2"
1 3/16"
5 1/2"



11 1/2" x 15 5/16"
double riveted
rivet ⌀ 15/16"
51/64"
6 3/16"
13 3/4"
13 3/4"
15 3/4"
3 15/16"
1/2"
7 7/8"
7 7/8"
11/16"
Water level
Inclination 8°
5 7/16"
3 15/16"
33 1/16"
23 5/8"
7 1/4"
3 1/2"
4 5/16"
4 7/16"
41 3/4"
43 3/4"
43 3/4"
11 3/4" x 15 3/4"



bottom of thread 2 3/16"
23/8"
51/64"
28 3/8"
8 5/8"
bottom of thread 1 3/8"
9 1/16"
87 plain tubes 3 1/4 outside ⌀, 9/64" thick
55 stay " 3 1/4 " " , 9/32" "
Sa 142
6' 9 1/8"
11' 11 1/16"
27 9/16"
53/64"
Fall of tubes 2"
8 5/8"
Longitudinal joint welded.
Tensile strength = 22,9 ÷ 26,7 tons.
38 13/16"
37 7/16"
4 15/16"
2 9/16"
4 5/16"
26 3/4"
9' 4 1/2"
10'



In the outer row
1 17/32" bottom of thread
1 5/8"
13"
1 3/8" bottom of thread
1 3/8" bottom of thread
7 5/16"
7 5/16"
loose
11 3/4"

24.2.09

No 34931.
JOH. C. TECKLENBORG A.-G.
SCHIFFSWERFT und MASCHINENFABRIK
BREMERHAVEN-GEESTEMÜNDE.
17/II 09.

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W815-0017